

IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method in communication between a vehicle ~~(1)~~ travelling along a route ~~(7)~~ and a stationary system ~~(2)~~, the vehicle ~~(1)~~ being equipped ~~with~~ including a communication unit ~~(3)~~ which to communicates messages to the stationary system ~~(2)~~, the method comprising: ~~characterised by~~

dividing the route ~~(7)~~ into a plurality of partial sections ~~(8)~~;

defining for each partial section ~~(8)~~ a required information flow from the vehicle, ; and

adapting the communication to ~~this~~ the definition.

2. (Currently Amended) A method as claimed in claim 1, further comprising:

creating a set of parameters ~~(10)~~ which define at least one of when messages should be sent and/or which contents of the messages ~~should have~~, ; and

communicating ~~said~~ the set ~~(10)~~ to the vehicle ~~(1)~~, so that the communication unit ~~(3)~~ is capable of adapting the communication.

3. (Currently Amended) A method as claimed in claim 1 ~~or 2~~, further comprising:

associating each partial section ~~(8)~~ with one of a plurality of predetermined classes, which each define an adaptation of the information flow, ; and

determining which class the current partial section is associated with, and adapting the communication according to this class.

4. (Currently Amended) A method as claimed in ~~any one of the preceding claims~~claim 1, wherein the adaptation comprises shifting between time-controlled communication and distance-controlled communication.

5. (Currently Amended) A method as claimed in claim ~~any one of the preceding claims~~, wherein the adaptation comprises changing a longest time period ~~(T)~~ which is allowed to pass before the next messages are sent.

6. (Currently Amended) A method as claimed in claim ~~any one of the preceding claims~~, wherein the adaptation comprises changing a fixed longest section along which the vehicle is allowed to travel before the next messages are sent.

7. (Currently Amended) A method as claimed in claim ~~any one of the preceding claims~~, wherein the adaptation comprises indicating fixed points ~~(a,b,c,d)~~ along the route at which messages are to be sent.

8. (Currently Amended) A method as claimed in claim ~~any one of the preceding claims~~, wherein the adaptation comprises indicating an event which is to initiate transmission of a message.

9. (Currently Amended) A method as claimed in claim ~~any one of the preceding claims~~, wherein the adaptation comprises affecting the contents of the message.

10. (Currently Amended) A method as claimed in claim
~~any one of the preceding claims~~, wherein each message
contains information about at least one of vehicle position,
vehicle speed and state of the vehicle equipment.

11. (New) A method as claimed in claim 2, further
comprising:

associating each partial section with one of a plurality
of predetermined classes, which each define an adaptation of
the information flow; and

determining which class the current partial section is
associated with, and adapting the communication according to
this class.

12. (New) A method as claimed in claim 2, wherein the
adaptation comprises shifting between time-controlled
communication and distance-controlled communication.

13. (New) A method as claimed in claim 2, wherein the
adaptation comprises changing a longest time period which is
allowed to pass before the next messages are sent.

14. (New) A method as claimed in claim 2, wherein the
adaptation comprises changing a fixed longest section along
which the vehicle is allowed to travel before the next
messages are sent.

15. (New) A method as claimed in claim 2, wherein the
adaptation comprises indicating fixed points along the route
at which messages are to be sent.

16. (New) A method as claimed in claim 2, wherein the adaptation comprises indicating an event which is to initiate transmission of a message.

17. (New) A method as claimed in claim 2, wherein the adaptation comprises affecting the contents of the message.

18. (New) A method as claimed in claim 2, wherein each message contains information about at least one of vehicle position, vehicle speed and state of the vehicle equipment.